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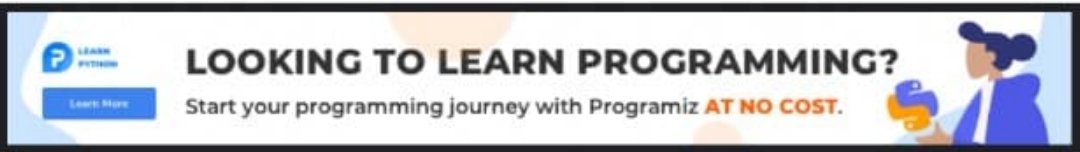

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main.c

Share | Run

```
    int numKeys;
    int isLeaf;
} Node;

Node* createNode(int isLeaf) {
    Node* node = (Node*)malloc(sizeof(Node));
    node->numKeys = 0;
    node->isLeaf = isLeaf;
    for (int i = 0; i < 4; i++) {
        node->children[i] = NULL;
    }
    return node;
}

void insert(Node** root, int key) {
    if (*root == NULL) {
        *root = createNode(1);
        (*root)->keys[0] = key;
        (*root)->numKeys = 1;
    } else {
        Node* tempRoot = *root;
        Node* newNode = NULL;
        insertNonFull(tempRoot, key, &newNode);
        if (newNode != NULL) {
            *root = createNode(0);
            (*root)->keys[0] = newNode->keys[0];
```

Output | Clear

```
/tmp/UKPuVhsvqs.c: In function 'insert':

30
20
Segmentation fault


=== Code Exited With Errors ===
```

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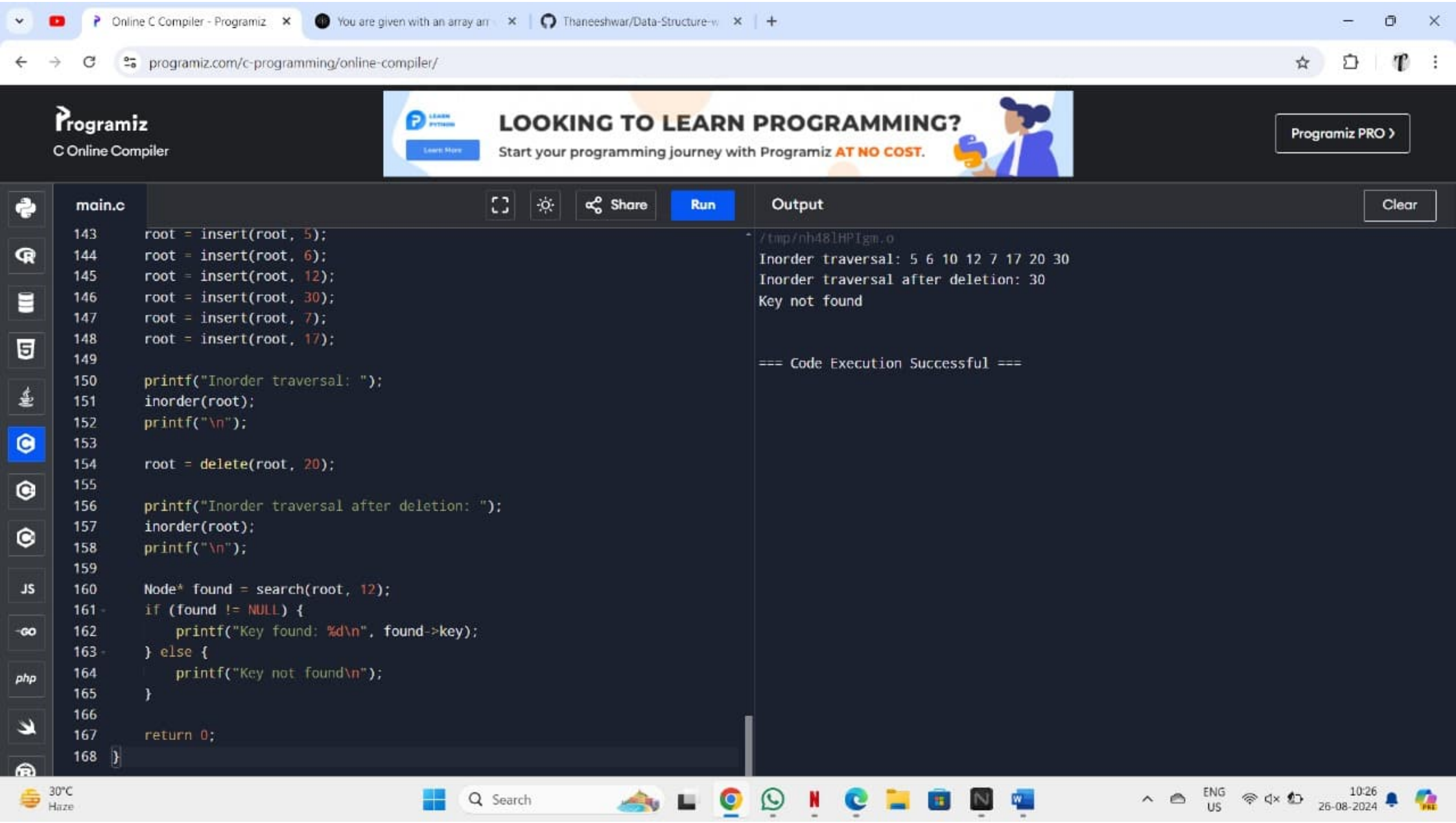
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main.c
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root = insert(root, 5);
root = insert(root, 6);
root = insert(root, 12);
root = insert(root, 30);
root = insert(root, 7);
root = insert(root, 17);
printf("Inorder traversal: ");
inorder(root);
printf("\n");
root = delete(root, 20);
printf("Inorder traversal after deletion: ");
inorder(root);
printf("\n");
Node* found = search(root, 12);
if (found != NULL) {
printf("Key found: %d\n", found->key);
} else {
printf("Key not found\n");
}
return 0;
}
/tmp/nh48lHPIgm.o
Inorder traversal: 5 6 10 12 7 17 20 30
Inorder traversal after deletion: 30
Key not found
=== Code Execution Successful ===
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main.c | Share | Run

```c
#include <stdio.h>
#include <stdlib.h>
#include <string.h>

#define ALPHABET_SIZE 26

typedef struct TrieNode {
    struct TrieNode* children[ALPHABET_SIZE];
    int isEndOfWord;
} TrieNode;

TrieNode* createNode() {
    TrieNode* node = (TrieNode*)malloc(sizeof(TrieNode));
    node->isEndOfWord = 0;
    for (int i = 0; i < ALPHABET_SIZE; i++) {
        node->children[i] = NULL;
    }
    return node;
}

void insert(TrieNode* root, char* word) {
    TrieNode* current = root;
    for (int i = 0; i < strlen(word); i++) {
        int index = word[i] - 'a';
        if (current->children[index] == NULL) {
            current->children[index] = createNode();
```

Output | Clear

```
/tmp/CdRnOoXaqp.c: In function 'delete':
Search for 'apple': 1
Search for 'banana': 1
Search for 'app': 1
Search for 'application': 1
Search for 'bat': 1
Search for 'batman': 1
Search for 'banana' after deletion: 0
Prefix search for 'app':
app
apple
application


=== Code Execution Successful ===
```

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